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## In the claims:

Please amend the claims as follows.

Please cancel claim 11.

- 1. (Withdrawn) An isolated nucleic acid molecule encoding an SBP1 polypeptide, or functional fragment thereof, selected from the group consisting of:
  - (a) a nucleic acid molecule encoding a polypeptide comprising amino acids 1-91 of SEQ ID NO:14, wherein said polypeptide binds Survivin;
- (b) a nucleic acid molecule encoding a polypeptide
   comprising amino acids 85-125 of SEQ ID NO:14, wherein said polypeptide enhances
   cyclin B1/cdc2 kinase activity;
  - (c) a nucleic acid molecule encoding SEQ ID NO:14; and
  - (d) a nucleic acid molecule that hybridizes to the

complement of the nucleic acid molecule of (a), (b) or (c) under highly stringent hybridization conditions, and encodes a polypeptide that binds Survivin or enhances cyclin B1/cdc2 kinase activity.

- 2. (Withdrawn) The isolated nucleic acid molecule of claim 1, wherein said polypeptide is encoded by a nucleotide sequence selected from the group consisting of:
  - (a) nucleotides 1-273 of SEQ ID NO:13;
  - (b) nucleotides 253-375 of SEQ ID NO:13; and
  - (c) SEQ ID NO:13
  - 3. (Withdrawn) A vector comprising the nucleic acid molecule of claim 1.
  - 4. (Withdrawn) A recombinant cell comprising the nucleic acid molecule of claim1.

- 5. (Withdrawn) An oligonucleotide comprising at least 17 nucleotides capable of specifically hybridizing with a nucleotide sequence set forth in SEQ ID NO:13 or its complement.
- 6. (Withdrawn) The oligonucleotide of claim 5, wherein said oligonucleotide is labeled with a detectable label.
- 7. (Withdrawn) A kit for detecting the presence of an SPB1 nucleic acid molecule, comprising at least one oligonucleotide according to claim 5.
- 8. (Currently amended) An isolated SBP1 polypeptide, or functional fragment thereof, consisting of a polypeptide encoding encoded by [[the]] a nucleic acid molecule of claim 1 selected from the group consisting of:
- (a) a nucleic acid molecule encoding a polypeptide consisting of amino acids 1-91 of SEQ ID NO:14, wherein said polypeptide binds Survivin; and
- (b) a nucleic acid molecule encoding a polypeptide consisting of amino acids 85-125 of SEQ ID NO:14, wherein said polypeptide enhances cyclin B1/cdc2 kinase activity;

wherein said SBP1 polypeptide or said functional fragment thereof binds Survivin or enhances cyclin B1/cdc2 kinase activity.

- 9. (Currently amended) The SBP1 polypeptide of claim 8, wherein said polypeptide emprises consists of the amino acid sequence set forth as amino acids 1-91 of SEQ ID NO:14.
- 10. (Currently amended) The SBP1 polypeptide of claim 8, wherein said polypeptide emprises consists of the amino acid sequence set forth as amino acids 85-125 of SEQ ID NO:14.

Claim 11 (Canceled)

- 12. (Withdrawn) A method for expression of an SBP1 polypeptide, said method comprising culturing the cell of claim 4 under conditions suitable for expression of said SBP1.
- 13. (Withdrawn) An isolated antibody having specific reactivity with an SBP1 polypeptide according to claim 11.
- 14. (Withdrawn) The antibody of claim 13, wherein said antibody is a monoclonal antibody.

- 15. (Withdrawn) A cell line producing the monoclonal antibody of claim 14.
- 16. (Withdrawn) The antibody of claim 13, wherein said antibody is a polyclonal antibody.
- 17. (Withdrawn) A transgenic non-human mammal expressing the nucleic acid molecule of claim 1.
- 18. (Withdrawn) A method for detecting a SBP nuleic acid molecule in a sample, comprising contacting a sample containing nucleic acids with one or more oligonucleotides according to claim 5, wherein said contacting is effected under high stringency hybridization conditions, and detecting a nucleic acid molecule that hybridizes to said oligonucleotide.
- 19. (Withdrawn) A method of detecting a SBP nucleic acid molecule in a sample, comprising contacting said sample with two or more SBP oligonucleotides according to claim 5, amplifying a nucleic acid molecule, and detecting said amplification.
- 20. (Withdrawn) A method for detecting the presence of SBP1 in a sample, comprising contacting a sample with an antibody according to claim 13, and detecting the presence of specific binding of said antibody to said sample, thereby detecting the presence of a SBP1 in said sample.
- 21. (Withdrawn) A method of identifying an effective agent that alters the association of SBP1 with a SBP1 associated polypeptide (SAP), comprising the steps of:
- (a) contacting said SBP1 and said SAP polypeptide, under conditions that allow said SBP1 and SAP polypeptide to associate, with a compound; and
- (b) detecting the altered association of said SBP1 and SAP polypeptide, thereby identifying a compound that is an effective agent for altering the association of said SBP1 with SAP.
- 22. (Withdrawn) A method of modulating apoptosis or cell division in a cell, comprising the steps of:
  - (a) introducing the nucleic acid molecule of claim 1 into the cell; and
  - (b) expressing said SBP1 polypeptide or

functional fragment in said cell, wherein the expression of said SBP1

polypeptide or functional fragment modulates apoptosis or cell division in said cell.

- 23. (Withdrawn) A method of modulating the level of apoptosis or cell division in a cell, comprising introducing an antisense nucleic acid molecule into the cell, wherein said antisense nucleic acid molecule specifically hybridizes to SEQ ID NO:13, wherein said hybridization reduces or inhibits the expression of SBP1 in said cell.
- 24. (Currently amended) A therapeutic composition comprising a pharmaceutically acceptable carrier and a compound selected from the group consisting of a SBP polypeptide consisting of
  - (a) amino acids 1-91 of SEQ ID NO:14, wherein said SBP polypeptide binds Survivin; or
- (b) amino acids 85-125 of SEQ ID NO:14, wherein said SBP polypeptide enhances cyclin B1/cdc2 kinase activity, a functional fragment of said SBP1, an SBP1 nucleic acid molecule, a SBP1 antisense nucleic acid molecule and an anti-SBP antibody.
- 25. (Withdrawn) A method of treating a pathology characterized by abnormal cell proliferation, comprising administering an effective amount of the composition according to claim 24.
- 26. (Withdrawn) A method of diagnosing a pathology characterized by an increased or decreased level of SBP1 in a subject, comprising the steps of:
  - (a) obtaining a test sample from the subject;
  - (b) contacting said sample with an agent that can bind

said SBP1 under suitable conditions, wherein said conditions allow specific binding of said agent to said

SBP1; and

(c) comparing the amount of said specific binding in

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said test sample with the amount of specific binding in a control sample, wherein an increased or decreased amount of said specific binding in said test sample as compared to said control sample is diagnostic of a pathology.

- 27. (Withdrawn) The method of claim 26, wherein said agent is selected from the group consisting of anti-SBP1 antibody, a SBP1 associated polypeptide (SAP), and a SBP1 nucleic acid molecule.
- 28. (Withdrawn) A method of modulating the level of apoptosis or cell division in a cell, comprising contacting the cell with a compound that effectively alters the association of SBP1 with a SAP in the cell, or that effectively alters the activity of SBP1 in the cell.
- 29. (Withdrawn) A method of identifying a site on Survivin that interacts with SBP1, said method comprising constructing a plurality of Survivin mutants; contacting said Survivin mutants with SBP1 or a Survivin-binding fragment therefrom under conditions that permit SBP1 binding to a native Survivin; and selecting a Survivin mutant that does not bind to said SBP1 or Survivin-binding fragment therefrom, thereby identifying a site on Survivin that interacts with SBP1.
- 30. (Withdrawn) A method of identifying a site on Survivin that interacts with SBP1, said method comprising contacting Survivin with SBP1 or a Survivin-binding fragment therefrom under conditions that permit SBP1 binding to native Survivin; and identifying a site on Survivin that interacts with SBP1 using a method selected from mass spectrometry, photoaffinity labeling, nuclear magnetic resonance (NMR), X-ray crystallography or virtual computational methodoloy.
- 31. (Withdrawn) The method of claim 30, wherein said virtual computational methodology is protein-protein docking prediction.
- 32. (Withdrawn) A method identifying a compound that binds to SBP1, comprising the steps of:
- (a) contacting said SBP1 with a test compound, under conditions that allow said SBP1 and said compound to associate; and
- (b) detecting a SBP1: compound complex, thereby identifying a compound that binds to said SBP1.

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- 33. (Withdrawn) The method of claim 32, wherein said compound is identified using a method selected from a mass spectrometry, nuclear magnetic resonance (NMR), or virtual computational methodology.
- 34. (Currently amended) [[A]] <u>An isolated</u> chimeric protein comprising a SBP1 domain selected from the group consisting of a Survivin-binding domain <u>referenced as amino acids 1-91 of SEQ ID NO:14</u> and a cyclin-dependent kinase regulatory domain <u>referenced as amino acids 85-125</u> of SEQ ID NO:14.

Please add the following new claims.

- 35. (New) The composition of claim 24, wherein said SBP polypeptide consists of amino acids 1-91 of SEQ ID NO:14.
- 36. (New) The composition of claim 24, wherein said SBP polypeptide consists of amino acids 85-125 of SEQ ID NO:14.
- 37. (New) The chimeric protein of claim 34, wherein said SBP1 domain is the Survivinbinding domain referenced as amino acids 1-91 of SEQ ID NO:14.
- 38. (New) The chimeric protein of claim 34, wherein said SBP1 domain is the cyclin-dependent kinase regulatory domain referenced as amino acids 85-125 of SEQ ID NO:14.